

Cork Institute of Technology
Bachelor of Engineering in Building Services Engineering – Stage 2
(EBSEN_7_Y2)
Summer 2008
Electrotechnology
(Time: 3 hours)

Answer THREE questions from Section A
and TWO questions from Section B.
Use separate answer books for each Section.
All questions carry equal marks.

Examiner: Mr. S. Bojovic
Dr. M. Smyth
Mr. D. Leonard

Section A

- Q1. (a) A coil of insulated wire of resistance $8\ \Omega$ and inductance $0.03\ \text{H}$ is connected to an a.c. supply at $240\ \text{V}$ 50Hz . Draw the circuit and calculate:
- (i) the current through the coil
 - (ii) power factor
 - (iii) the power consumed by the coil (6 marks)
- (b) Calculate the value of capacitance which when connected in series with the above coil, causes no change in the values of the current and power taken from the supply. (6 marks)
- (c) A coil of resistance $100\ \Omega$ and inductance $100\ \mu\text{H}$ is connected in series with a $100\ \text{pF}$ capacitor. The circuit is connected to a $10\ \text{V}$ variable frequency supply. Draw the circuit and calculate:
- (i) the resonant frequency
 - (ii) current at resonance
 - (iii) voltage across L and C at resonance
 - (iv) Q factor of the circuit (8 marks)

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Table of Contents July 2014 Electrotechnology Memo

1. Understanding the eBook July 2014 Electrotechnology Memo
 - The Rise of Digital Reading July 2014 Electrotechnology Memo
 - Advantages of eBooks Over Traditional Books
2. Identifying July 2014 Electrotechnology Memo
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an July 2014 Electrotechnology Memo
 - User-Friendly Interface
4. Exploring eBook Recommendations from July 2014 Electrotechnology Memo

- Personalized Recommendations
- July 2014 Electrotechnology Memo User Reviews and Ratings
- July 2014 Electrotechnology Memo and Bestseller Lists
- 5. Accessing July 2014 Electrotechnology Memo Free and Paid eBooks
 - July 2014 Electrotechnology Memo Public Domain eBooks
 - July 2014 Electrotechnology Memo eBook Subscription Services
 - July 2014 Electrotechnology Memo Budget-Friendly Options
- 6. Navigating July 2014 Electrotechnology Memo eBook Formats
 - ePub, PDF, MOBI, and More
 - July 2014 Electrotechnology Memo Compatibility with Devices
 - July 2014 Electrotechnology Memo Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of July 2014 Electrotechnology Memo
 - Highlighting and Note-Taking July 2014 Electrotechnology Memo
 - Interactive Elements July 2014 Electrotechnology Memo
- 8. Staying Engaged with July 2014 Electrotechnology Memo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers July 2014 Electrotechnology Memo
- 9. Balancing eBooks and Physical Books July 2014 Electrotechnology Memo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection July 2014 Electrotechnology Memo
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine July 2014 Electrotechnology Memo
 - Setting Reading Goals July 2014 Electrotechnology Memo
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of July 2014 Electrotechnology Memo

- Fact-Checking eBook Content of July 2014 Electrotechnology Memo
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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